

CERTIFICATE

- Red Seal Certification
- One year
- September start
- Seal Cove and Happy Valley-Goose Bay Campuses

COURSES

| CODE | TITLE | Hrs |
|----------------|---|-----|
| Block 1 | Entry Level | |
| TS1510 | Occupational Health and Safety | 6 |
| TS1520 | WHMIS | 6 |
| TS1530 | Standard First Aid | 14 |
| OL1610 | Defensive Driving | 6 |
| OL1620 | Environmental Awareness | 4 |
| OL1630 | Orientation to the Trade | 20 |
| OL1640 | Vehicle Familiarization | 20 |
| OL1660 | Basic Hand and Specialty Tools | 15 |
| OL1670 | Basic Power Tools | 10 |
| OL1650 | Powerline Technician Equipment | 25 |
| ER1140 | DC Theory | 30 |
| ER1150 | Series and Parallel Circuits | 45 |
| ER1180 | Single Phase Theory | 60 |
| OL1680 | Chainsaw Familiarization | 10 |
| OL1830 | Customer Service Connections | 30 |
| OL1700 | Interpret Drawings, Specifications, and Standards | 10 |
| OL1710 | Distribution Line Design and Construction I | 70 |
| OL1711 | Distribution Line Design and Construction II | 70 |
| OL1713 | Distribution Line Design and Construction III | 60 |
| OL1720 | Conductors | 20 |
| OL1730 | Conductor Sizes and Measurements | 2 |
| OL1740 | Sagging Conductors | 10 |
| OL1750 | Tree Pruning | 6 |
| OL1850 | Rigging | 40 |
| OL1690 | Pole Safety | 10 |
| OL1760 | Rescue at Heights | 30 |
| OL1770 | Mobile Hydraulic Training | 30 |
| OL1600 | Traffic Control Person | 4 |
| OL1780 | Transmission Structures | 10 |
| OL1790 | Grounds (Personal Structures and Vehicles) | 30 |
| OL1840 | Single Phase Revenue Metering | 15 |
| OL1820 | Street Lighting | 30 |
| OL1810 | Transformers | 30 |
| MA1060 | Basic Math | 60 |
| CM2150 | Workplace Communications | 45 |
| MR1220 | Customer Service | 30 |
| SP2330 | Quality Assurance/Quality Control | 30 |
| MC1050 | Introduction to Computers | 30 |
| SD1700 | Workplace Skills | 30 |
| SD1710 | Job Search Techniques | 15 |
| SD1720 | Entrepreneurial Awareness | 15 |
| OT1160 | Workplace Exposure | 60 |
| Block 2 | Advanced Level | |
| OL2510 | System Operating Practices | 30 |
| OL2520 | Three-Phase Theory | 60 |
| OL2530 | Transformer Banking | 60 |
| OL2540 | Power Transformers | 25 |
| OL2550 | Paralleling Three Phase Circuits | 25 |
| OL2560 | Single-Phase and Three-Phase Revenue Metering | 10 |
| OL2570 | Substations, Switching Stations and Terminals | 30 |
| Block 3 | Advanced Level | |
| OL2610 | Switches and Protective Devices | 30 |
| OL2620 | Voltage Regulations | 30 |
| OL2631 | Underground Construction | 65 |
| OL2641 | Underground System Operation | 65 |
| OL2650 | Line Capacitors | 20 |
| OL2660 | Electronic Reclosers | 30 |
| Block 4 | Advanced | |
| OL2710 | Live Line Work (Hot Stick) | 120 |
| OL2720 | Live Line Work (Rubber Glove) | 120 |

INDUSTRIAL TRADES

Powerline Technician (Operating)

The Powerline Technician (Operating) program will prepare you to build and repair overhead and underground power lines used to conduct electricity from generating plants to the customer. To accomplish this you will perform the following duties: erect and maintain steel, wood or concrete poles, towers and guy wires, install, maintain and repair overhead and underground power lines and cables, insulators, conductors, lightning arrestors, switches, transformers, street lighting and other associated equipment, splice, solder and insulate conductors and related writing to connect power distribution and transmission networks. When we do experience a power disturbance, it will be you who has to locate the source of the problem and replace or repair the defective power lines and accessories. Strenuous physical dexterity is required for this program. Employers will normally demand all applicants to undergo a physical capabilities assessment prior to hiring. You should have good coordination and manual dexterity, good hearing and color vision, have the ability to work at heights and in extreme weather conditions and you must be able to work as a member of a team and adapt to changing tasks and locations.

OUTCOMES

1. Demonstrate safe work practices and personal protection.
2. Interpret occupational documents.
3. Use and maintain tools and equipment.
4. Install poles, transmission towers, overhead conductors, underground and overhead cable, lighting systems, voltage control equipment.
5. Maintain transmission and distribution systems.

ENTRANCE REQUIREMENTS

Eligibility for admission requires the applicant to meet one of the following academic criteria:

1. High School

High School Graduation

2. Comprehensive Arts and Science (CAS) Transition

Comprehensive Arts and Science (Transition) Certificate

3. Adult Basic Education

Adult Basic Education (Level III) Graduation with General College Profile (or Business Related College Profile or Degree and Technical Profile). It is strongly recommended that courses include the following:

- i. Mathematics MA3107A, MA3107B, MA3107C
- ii. Science 3101, 3102, 3103

4. Mature Student Status

Applicants who do not meet the educational prerequisites, are 19 years of age or older and have been out of school for at least one year, may be considered on an individual basis under the Mature Student Clause.

AND

5. Students must hold a class 5 drivers licence prior to admission to the program.

Acquisition of a class 3 drivers license is required by many employers upon hire. It is advisable for potential students to verify that they meet the licensing requirements of a class 3 license with motor registration when applying for this program.

EMPLOYMENT OPPORTUNITIES

Powerline technicians are employed by utility companies and their contractors.

